QUALITY ASSURANCE REPORT

SE/QA/RRN/PR/01/2022-23, Dated:21.10.2022

Name of Work	:	Comprehensive development of roads and drains in JP Park, Yeshwanthpur, Jalahalli and surrounding area in ward no. 16, 17 & 37 under PACKAGE - 2022-23 RRN – DIV-(15).
Job Code	:	017-23-000001
Type of Test Performed	:	Nondestructive test As per IS13311-2-1992 (Rebound Hammer Test was conducted)
Materials on which Tests Was Performed	:	1.On Pre-Cast Concrete Corner Slab 2. Slope kerb stone already laid. 3. Solid brick 100mm & 150mm.
Officers present during inspection	:	1. Sri. Umesh N G – AE – Ward No. 37 2. Sri. M Vigneshwar – AEE–YeshwanthpuraSub-Division 3. Sri. Basavaraju N – EE–RR Nagar Division 4. Sri. Nagaraj – PMC supplier 5. Sri. S. V. Malgavi – AEE – Quality Assurance 6. Dr. B. G. Raghavendraprasad – SE – Quality Assurance
PMC Details	:	**M/S Sapience Consultant, Bangalore.**
Observations	:	Rebound hammer test was conducted in presence of AE, AEE, EE & Project Management Consultants. The readings of Rebound Hammer Test for precast corner slab cast, kerb stone & solid brick of 100mm & 150mm thick. Readings were recorded by the PMC consultants by conducting tests on the items which were already used in the above work. The analysis of test results were carried out by the PMC consultants and the results were tabulated and furnished to BBMP QA department. The location wise test results are reproduced in the tables shown below:

ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಭಿಯಂತರರು
ಗುಣಭರವಸೆ/ಗುಣನಿಯಂತ್ರಣ ಉಪ-ವಿಭಾಗ ಆರ್.ಆರ್. ನಗರ
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Test Locations : **Location 1:** Ward No. 37, B.K. Nagar, [illegible] main road (opposite Tejaswini rice corner) - Pre[illegible] slab casted - Rebound Hammer Test conducted.

Location 2 : Ward No. 17, Muthyala Nagar, [illegible] Nagar, back gate House No. 15 'E' (Minugutare [illegible] road) – Pre cast, corner slab, slope kerb.

Location 3: Ward No. 16, Sharadamba Nagar, [illegible] village, Near Raghavendra mutt, 6th main road, PRM [illegible] tailor.

Table-01: Rebound Hammer Test Results for Location-1

Sl. No.	Floor level / Structural Member /Identification	Position/Elevation (cm)	Rebound Hammer Number	Compressive Strength of Concrete (N/mm²)	Impact Direction
Sample Tested Location at B K Nagara 1st Main Road Opp Tejaswini Rice Store 17th Cross W No.37, Yashwanthapura.					
Precast Corner Slab					
1	RHS (B K Nagara 1st Main Road)	Location-1	33	28-30	Vertical down
2		Location-2	34	30-32	Vertical down
Kerb stone					
3	LHS (B K Nagara 1st Main Road)	Location-1	34	22-24	Horizontal
4		Location-2	35	23-25	Horizontal
Kerb stone					
5	RHS(B K Nagara 1st Main Road)	Location-1	35	23-25	Horizontal
6		Location-2	33	20-22	Horizontal
CC Solid blocks					
7	(B K Nagara 1st Main Road)LHS	Location-1	28	12-14	Horizontal
8		Location-2	28	12-14	Horizontal

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Table-02: Rebound Hammer Test Results for Location-2

Sl. No.	Floor level / Structural Member /Identification	Position/Elevation (cm)	Rebound Hammer Number	Compressive Strength of Concrete (N/mm²)	Impact Direction
Sample Tested Location at Muthyala Nagara Behind J P Park Back Gate #15 E (Minugutare Kalpana road) W No.17, J P Park.					
Precast Corner Slab					
1	LHS (Behind J P Park)	Location-1	33	28-30	Vertical down
2		Location-2	34	30-32	Vertical down
Kerb stone					
3	LHS (Behind J P Park)	Location-1	35	23-25	Horizontal
4		Location-2	34	22-24	Horizontal
Kerb stone					
5	RHS (Behind J P Park)	Location-1	32	18-20	Horizontal
6		Location-2	33	20-22	Horizontal
CC Solid blocks					
7	RHS (Behind J P Park)	Location-1	28	12-14	Horizontal
8		Location-2	28	12-14	Horizontal

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Table-03: Rebound Hammer Test Results for Location-3

Sl. No.	Floor level / Structural Member /Identification	Position/Elevation (cm)	Rebound Hammer Number	Compressive Strength of Concrete (N/mm²)	Impact Direction
Sample Tested Location at Sharadamba Nagara Jalahalli Village M/R Near Raghavendra Mutt # PRM Ladies Tailor W No.16, Jalahalli.					
Precast Corner Slab					
1	LHS (Near Raghavendra Mutt)	Location-1	33	28-30	Vertical down
2		Location-2	35	32-34	Vertical down
Kerb stone					
3	RHS (Near Raghavendra Mutt)	Location-1	34	22-24	Horizontal
4		Location-2	33	20-22	Horizontal
Kerb stone					
5	LHS (Near Raghavendra Mutt)	Location-1	35	23-25	Horizontal
6		Location-2	33	20-22	Horizontal
CC Solid blocks					
7	LHS (Near Raghavendra Mutt)	Location-1	28	12-14	Horizontal
8		Location-2	28	12-14	Horizontal

Conclusion:

The test results furnished by PMC consultants for the items tested at above locations indicate that the items are in accordance with the standards / specifications.

The concerned Engineer in charge of the work shall ensure that the materials used shall be in accordance with standard specifications / BIS / and relevant IRC codes and follow the direction issued by Chief Commissioner letter number dated 01.08.2022 and take necessary action as appropriate in accordance with the law.

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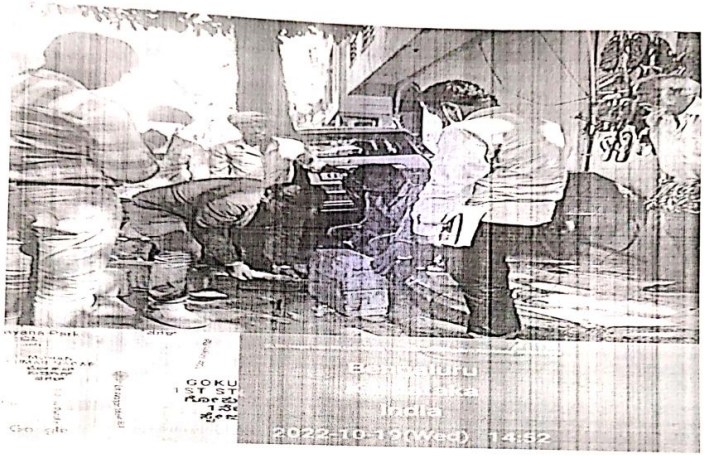
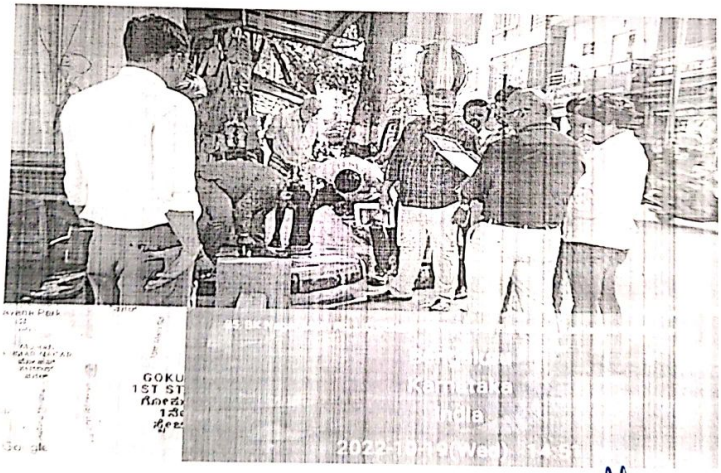
Location 1: B.K. Nagar, 17th cross, 1st main road (opposite Tejaswini rice corner), Bengaluru – 560054.





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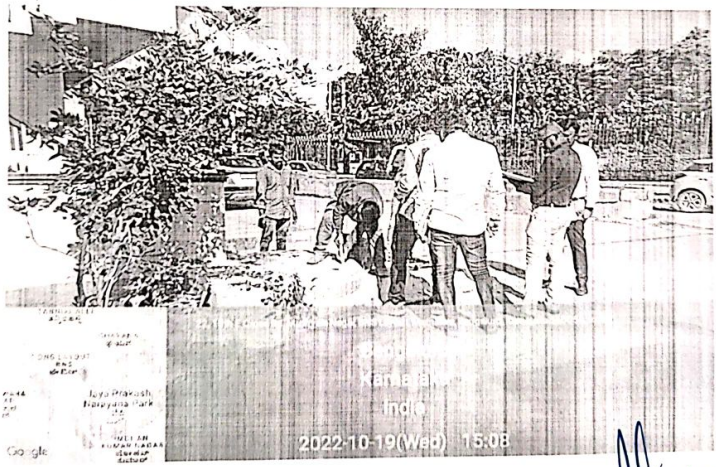
Location 2 : Ward No. 17, Muthyala Nagar, behind JP Nagar, back gate House No. 15 'E' (Minugutare Kalpana road), Bengaluru – 560054.



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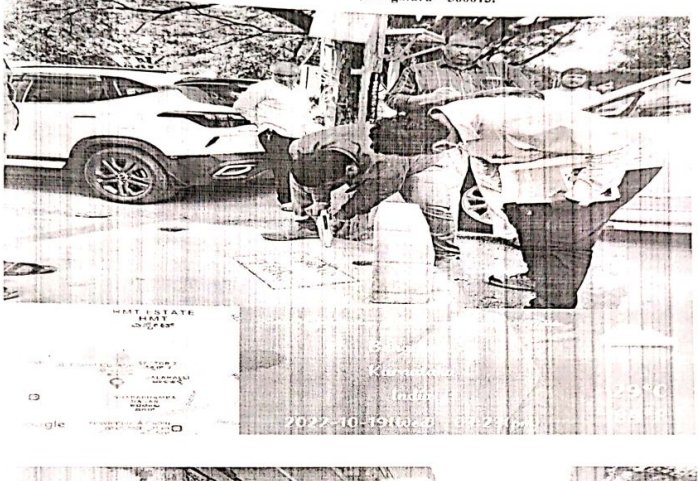
Location 3: Ward No. 16, Sharadambha Nagar, Jalahalli village, Near Raghavendra mutt, 6th main road, PRM ladies tailor, Bengaluru – 560013.



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